SEQUENCE LISTING

<110> Ligensa, Tanja
Schumacher, Ralf
Weidner, Michael

<120> IGF-1 Receptor Interacting Proteins

<130> 09/453,195

<140> 09/453,195
<141> 1999-12-02

<150> EPO 98122992.5
<151> 1998-12-03

<160> 10

<170> PatentIn Ver. 2.1

<210> 1
<211> 1707
<212> DNA
<213> Homo sapiens

<220>
<223> n at position 186, 187, 203, and 205 is a, t, g, or c.

<400> 1
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tcatgccgct gggactgggg cggcggaaaa aggcgccccc tctagtggaa aatgaggagg 120
ctgagccagg ccgtggaggg ctgggcgtgg gggagccagg gcctctgggc ggaggtgggt 180
cggggnnccc ccaaatgggc ttncncccccc ctcccccagc cctgcggccc cgcctcgtgt 240
tccacaccca gctggcccat ggcagtccca ctggccgcat cgagggcttc accaacgtca 300
aggagctgta tggcaagatc gccgaggcct tccgcctgcc aactgccgag gtgatgttct 360
gcaccctgaa cacccacaaa gtggacatgg acaagctcct ggggggccag atcgggctgg 420
aggacttcat cttcgcccac gtgaaggggc agcgcaagga ggtggaggtg ttcaagtcgg 480
aggatgcact cgggctcacc atcacggaca acggggctgg ctacgccttc atcaagcgca 540
tcaaggaggg cagcgtgatc gaccacatcc acctcatcag cgtgggcgac atgatcgagg 600
ccattaacgg gcagagcctg ctgggctgcc ggcactacga ggtggcccgg ctgctcaagg 660
agctgccccg aggccgtacc ttcacgctga agctcacgga gcctcgcaag gccttcgaca 720
tgatcagcca gcgttcagcg ggtggccgcc ctggctctgg cccacaactg ggcactggcc 780
gagggaccct gcggctccga tcccggggcc ccgccacggt ggaggatctg ccctctgcct 840
ttgaagagaa ggccattgag aaggtggatg acctgctgga gagttacatg ggtatcaggg 900
acacggagct ggcagccacc atggtggagc tgggaaagga caaaaggaac ccggatgagc 960
tggccgaggc cctggacgaa cggctgggtg actttgcctt ccctgacgag ttcgtctttg 1020
acgtctgggg cgccattggg gacgccaagg tcggccgcta ctaggactgc ccccggaccc 1080
tgcgatgatg acccgggcgc aacctggtgg gggcccccag cagggacact gacgtcagga 1140
cccgagcctc cagcctgagc ctagctcagc agcccaagga cgatggtgag gggaggtggg 1200
gccaggcccc ctgccccgct ccactcggta ccatcccctc cctggttccc agtctggccg 1260
gggtccccgg ccccctgtg ccctgttccc cacctacctc agctgggtca ggcacaggga 1320
ggggagggat cagccaaatt gggcggccac ccccgcctcc accactttcc accatcagct 1380
gccaaactgg tccctctgtc tccctggggc cttgggttct gtttgggggt catgaccttc 1440
ctagtttcct gacgcaggga atacagggga gagggttgtc cttcccccca gcaaatgcaa 1500
taatgccctc acccctcctg agaggagccc cctccctgtg gagcctgtta cctccgcatt 1560
tgacacgagt ctgctgtgaa ccccgcaacc tcctccccac ctcccatctc tccttccagg 1620

cccatccctg gcccagagca ggagggaggg agggacgatg gcggtgggtt tttgtatctg 1680
aatttgctgt cttgaacata aagaatc 1707

<210> 2
<211> 333
<212> PRT
<213> Homo sapiens

<220>
<223> Xaa at position 42, 47, and 48 is any one of the twenty naturally occurring amino acids.

<400> 2

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Asn	Glu	Glu	Ala	Glu	Pro	Gly	Arg	Gly	Gly	Leu	Gly	Val	Gly	Glu	Pro
		20					25					30			
Gly	Pro	Leu	Gly	Gly	Gly	Gly	Ser	Gly	Xaa	Pro	Gln	Met	Gly	Xaa	Xaa
	35					40					45				
Pro	Pro	Pro	Pro	Ala	Leu	Arg	Pro	Arg	Leu	Val	Phe	His	Thr	Gln	Leu
50					55					60					
Ala	His	Gly	Ser	Pro	Thr	Gly	Arg	Ile	Glu	Gly	Phe	Thr	Asn	Val	Lys
65				70					75					80	
Glu	Leu	Tyr	Gly	Lys	Ile	Ala	Glu	Ala	Phe	Arg	Leu	Pro	Thr	Ala	Glu
			85					90					95		
Val	Met	Phe	Cys	Thr	Leu	Asn	Thr	His	Lys	Val	Asp	Met	Asp	Lys	Leu
		100					105					110			
Leu	Gly	Gly	Gln	Ile	Gly	Leu	Glu	Asp	Phe	Ile	Phe	Ala	His	Val	Lys
	115					120					125				
Gly	Gln	Arg	Lys	Glu	Val	Glu	Val	Phe	Lys	Ser	Glu	Asp	Ala	Leu	Gly
130					135					140					
Leu	Thr	Ile	Thr	Asp	Asn	Gly	Ala	Gly	Tyr	Ala	Phe	Ile	Lys	Arg	Ile
145				150					155					160	
Lys	Glu	Gly	Ser	Val	Ile	Asp	His	Ile	His	Leu	Ile	Ser	Val	Gly	Asp
			165					170					175		
Met	Ile	Glu	Ala	Ile	Asn	Gly	Gln	Ser	Leu	Leu	Gly	Cys	Arg	His	Tyr
		180					185					190			
Glu	Val	Ala	Arg	Leu	Leu	Lys	Glu	Leu	Pro	Arg	Gly	Arg	Thr	Phe	Thr
	195					200					205				
Leu	Lys	Leu	Thr	Glu	Pro	Arg	Lys	Ala	Phe	Asp	Met	Ile	Ser	Gln	Arg
210					215					220					

```
Ser Ala Gly Gly Arg Pro Gly Ser Gly Pro Gln Leu Gly Thr Gly Arg
225                 230                 235                 240

Gly Thr Leu Arg Leu Arg Ser Arg Gly Pro Ala Thr Val Glu Asp Leu
                245                 250                 255

Pro Ser Ala Phe Glu Glu Lys Ala Ile Glu Lys Val Asp Asp Leu Leu
            260                 265                 270

Glu Ser Tyr Met Gly Ile Arg Asp Thr Glu Leu Ala Ala Thr Met Val
        275                 280                 285

Glu Leu Gly Lys Asp Lys Arg Asn Pro Asp Glu Leu Ala Glu Ala Leu
    290                 295                 300

Asp Glu Arg Leu Gly Asp Phe Ala Phe Pro Asp Glu Phe Val Phe Asp
305                 310                 315                 320

Val Trp Gly Ala Ile Gly Asp Ala Lys Val Gly Arg Tyr
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<210> 3
<211> 380
<212> DNA
<213> Homo sapiens

<220>
<223> n at position 369 is a, t, g, or c.

<400> 3
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ccaaagacaa ggcagaaagt cactgcccaa gccggaggcc ccggggatcc catgcttttt 180
tcaagcccag agacagatga gaagcttttt atatgtgcgc agtgtggcaa aaccttcaac 240
aatacctcca acctgagaac gcaccagcgg atccacactg gcgagaagcc ctacatgtgt 300
tccgagtgtg gcaagagttt ctcccggagc tccaaccgca tccggcacga gcgcatccac 360
ctggaagana agcactctga 380

<210> 4
<211> 126
<212> PRT
<213> Homo sapiens

<220>
<223> Xaa at position 123 is any one of the twenty naturally occurring amino acids.

<400> 4
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Ala Glu Glu Gly Glu Gly Ala Lys Pro Trp Arg Val Asp Gly Ser Lys
  1               5                  10                  15

Asp Ser Gln Ile Thr Pro Arg Glu Asp His Gly Gln Glu Ser Leu Leu
             20                  25                  30
```

```
Ala Gly Leu His Gly Thr His Pro Pro Lys Thr Arg Gln Lys Val Thr
         35                  40                  45

Ala Gln Ala Gly Gly Pro Gly Asp Pro Met Leu Phe Ser Ser Pro Glu
     50                  55                  60

Thr Asp Glu Lys Leu Phe Ile Cys Ala Gln Cys Gly Lys Thr Phe Asn
 65                  70                  75                  80

Asn Thr Ser Asn Leu Arg Thr His Gln Arg Ile His Thr Gly Glu Lys
                 85                  90                  95

Pro Tyr Met Cys Ser Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser Asn
            100                 105                 110

Arg Ile Arg His Glu Arg Ile His Leu Glu Xaa Lys His Ser
        115                 120                 125
```

<210> 5
<211> 678
<212> DNA
<213> Homo sapiens

<400> 5
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cagaagactt cagccactaa aaactgtttg aagaatctaa gcagccactg gctgatgaag 180
tcagagccag agagccgcct agagaaaggt gtagatgtga agttcagcat tgaggatctc 240
aaagcacagc ccaaacagac aacatgctgg gatggtgttc gtaactacca ggctcggaac 300
ttccttagag ccatgaagct gggagaagaa gccttcttct accatagcaa ctgcaaagag 360
ccaggcatcg caggactcat gaagatcgtg aaagaggctt acccagacca cacacagttt 420
gagaaaaaca atccccatta tgacccatct agcaaagagg acaaccctaa gtggtccatg 480
gtggatgtac agtttgttcg gatgatgaaa cgtttcattc ccctggctga gctcaaatcc 540
tatcatcaag ctcacaaagc tactggtggc cccttaaaaa atatggttct cttcactcgc 600
cagagattat caatccagcc cctgacccag gaagagtttg attttgtttt gagcctggag 660
gaaaaggaac caagttaa                                                678
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<210> 6
<211> 225
<212> PRT
<213> Homo sapiens

<400> 6
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Met Ser Arg Pro Arg Lys Arg Leu Ala Gly Thr Ser Gly Ser Asp Lys
  1               5                  10                  15

Gly Leu Ser Gly Lys Arg Thr Lys Thr Glu Asn Ser Gly Glu Ala Leu
             20                  25                  30

Ala Lys Val Glu Asp Ser Asn Pro Gln Lys Thr Ser Ala Thr Lys Asn
         35                  40                  45

Cys Leu Lys Asn Leu Ser Ser His Trp Leu Met Lys Ser Glu Pro Glu
     50                  55                  60
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Ser Arg Leu Glu Lys Gly Val Asp Val Lys Phe Ser Ile Glu Asp Leu
65 70 75 80

Lys Ala Gln Pro Lys Gln Thr Thr Cys Trp Asp Gly Val Arg Asn Tyr
85 90 95

Gln Ala Arg Asn Phe Leu Arg Ala Met Lys Leu Gly Glu Glu Ala Phe
100 105 110

Phe Tyr His Ser Asn Cys Lys Glu Pro Gly Ile Ala Gly Leu Met Lys
115 120 125

Ile Val Lys Glu Ala Tyr Pro Asp His Thr Gln Phe Glu Lys Asn Asn
130 135 140

Pro His Tyr Asp Pro Ser Ser Lys Glu Asp Asn Pro Lys Trp Ser Met
145 150 155 160

Val Asp Val Gln Phe Val Arg Met Met Lys Arg Phe Ile Pro Leu Ala
165 170 175

Glu Leu Lys Ser Tyr His Gln Ala His Lys Ala Thr Gly Gly Pro Leu
180 185 190

Lys Asn Met Val Leu Phe Thr Arg Gln Arg Leu Ser Ile Gln Pro Leu
195 200 205

Thr Gln Glu Glu Phe Asp Phe Val Leu Ser Leu Glu Glu Lys Glu Pro
210 215 220

Ser
225

<210> 7
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer TIP2c-s

<400> 7
gaaacccaca ggaggcaa 18

<210> 8
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer TIP2b-r

<400> 8

ggtcatcatc gcagggtc 18

<210> 9
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer Hcthy-s

<400> 9
agcttgcggc cgcagatgtc gagaccccgg aag 33

<210> 10
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer Hcthy-r

<400> 10
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